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*Owner's Manual*

# **INTERNET I™**

**Standby UPS Systems (230V)**

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This manual contains important instructions and warnings that should be followed during the installation, operation and storage of all Tripp Lite UPS Systems.

## ***UPS Location Warnings***

- Install your UPS indoors, away from excess moisture, heat, dust and direct sunlight.
- For best performance, keep the indoor temperature between 0° C and 40° C (between 32° F and 104° F).
- Leave adequate space around all sides of the UPS for proper ventilation.

## ***UPS Connection Warnings***

- Connect your UPS to a grounded AC power outlet. Do not remove or modify the ground pin of the UPS's plug. Do not use plug adapters that would circumvent the UPS's ground connection.
- Do not plug your UPS into itself; this will damage the UPS and void your warranty.
- If you are connecting your UPS to a motor-powered AC generator, the generator must provide clean, filtered computer-grade output.

## ***Equipment Connection Warnings***

- Do not use Tripp Lite UPS Systems for life support applications in which a malfunction or failure of a Tripp Lite UPS System could cause failure or significantly alter the performance of a life-support device.
- Do not connect surge suppressors to the output of your UPS. This may damage your UPS and will void both the surge suppressor and UPS warranties.

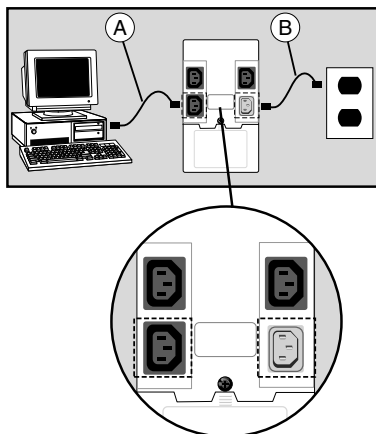
## ***Battery Warnings***

- Your UPS does not require routine maintenance. Do not open your UPS for any reason. There are no user-serviceable parts inside.
- Battery replacement must be performed by qualified service personnel. Because the batteries present a risk of electrical shock and burn from high short-circuit current, observe proper precautions. Unplug and turn off the UPS before performing battery replacement. Use tools with insulated handles and replace the existing batteries with the same number and type of new batteries (Sealed Lead-Acid). Do not open the batteries. Do not short or bridge the battery terminals with any object.
- The UPS batteries are recyclable. Refer to local codes for disposal requirements. Do not dispose of the batteries in a fire.
- Do not attempt to add external batteries.

# Quick Installation

## 1 Connect your computer to the UPS, and the UPS to an electrical outlet.

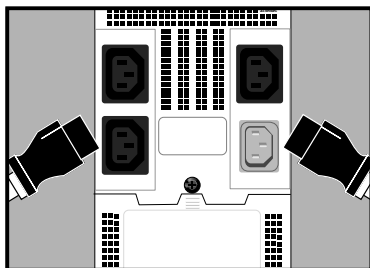
1. Unplug your computer's power cord from both your AC outlet and your computer's AC input.
2. Insert the female plug of your computer's cord (B) into your UPS's AC input. Insert the male plug of your computer's cord into your AC outlet.
3. Find the power cord that came with your UPS (A). Insert the UPS cord's female plug into your computer's AC input. Insert the UPS cord's male plug into any of your UPS's female output receptacles.



## 2 Plug your equipment into the UPS's outlets.

Cords and receptacle adapters are available from Tripp Lite to accommodate most outlet configurations. If rewiring is necessary, refer to the Wire Color-Code Chart in "Specifications", pg. 6.

Your UPS is designed to support only computer equipment. You will overload your UPS if you connect household appliances, laser printers or surge suppressors to the battery-supported outlets.



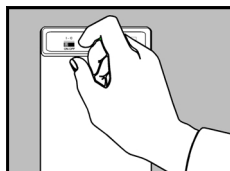
## 3 Set your UPS's "OFF - ON" Switch.\*

### USA, Canada & Western Europe

- Set it and leave it "ON" at all times.

### All Other Countries

- Set to "OFF" when you are **not** using connected equipment. (WARNING! When set to "OFF," UPS will not provide battery backup during a blackout or brownout)
- Set to "ON" when you are using connected equipment.



\*See Basic Operation section for the Switch Function, UPS Conditions and Setting Advantages.

## –Optional Installation– (Select models)†

### OPTION 1 (Phone-Line Surge Suppression)†

Using telephone cords, connect your wall jack to the UPS jack marked "LINE" (or "IN"). Connect your equipment to the UPS jack marked "EQUIP" (or "OUT").

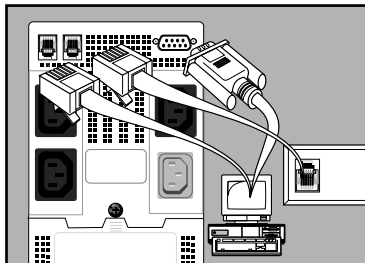
### OPTION 2 (UPS Software)

Using Tripp Lite cable (if supplied), connect the DB9 port of your computer to the DB9 port of your UPS. Load software (if supplied) and run installation program appropriate for your operating system.

†These connections and settings are optional. Your UPS will function properly without these connections and settings.

††Make sure the equipment you connect to the UPS's telephone jacks is also protected against surges on the AC line.

OPTIONS 1 & 2



(Continued)

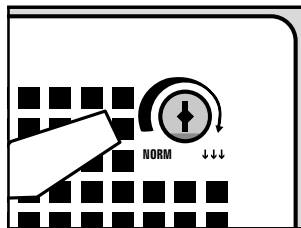
## –Optional Installation–

(continued)\*

### OPTION 3 (Brownout Voltage Adjustment)

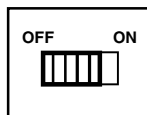
Adjust the Voltage Potentiometer (UPS back panel) clockwise to lower the voltage point at which the UPS switches from on-line to battery output.\*\*

\* Your UPS will function properly without these connections or settings. \*\* Use caution when adjusting the potentiometer while the UPS is powering a voltage-sensitive load.



## Basic Operation

### Switches



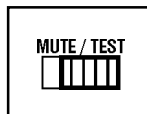
With your UPS plugged in, set this switch according to the recommendations in Step 3 of the Quick Installation section.

#### "ON" Position

**Function:** ENABLES battery backup. **UPS Conditions:** The UPS battery is charging. Power is ON at the UPS receptacles. The "∧" indicator light is illuminated. **Setting Advantages:** Provides battery backup during blackouts or brownouts.

#### "OFF" Position

**Function:** DISABLES battery backup. **UPS Conditions:** The UPS battery is charging. Power is ON at the UPS receptacles. The "∧" indicator light is illuminated. The "☒" indicator light is flashing. **Setting Advantages:** Continues to charge the battery when power is present while turning OFF the inverter to prevent battery backup operation when equipment is not in use.



Available  
on select  
models

Use this momentary switch to do three things:

#### Silence the UPS alarm\*

Move this switch to the left and release it. Note: When the battery is nearly depleted the alarm resumes (and cannot be silenced) to alert you to immediately shut down connected equipment.

\*The UPS alarm consists of a series of short beeps followed by a brief pause. The alarm is activated when the UPS switches to battery during a blackout or brownout.

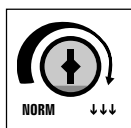
#### Test your UPS's battery charge\*\*

With your connected equipment and your UPS turned ON, move this switch to the left; hold it there for 2 seconds and release it. The UPS will beep and flash its LEDs as it momentarily switches to battery to test its charge. If the UPS alarm sounds afterwards, or the properly-sized load is not supported, let your UPS charge its batteries for 12 hours and repeat the test. If alarm still sounds, contact Tripp Lite for service. CAUTION: Do not unplug your UPS to test its batteries. This will remove safe electrical grounding and may introduce a damaging surge into your network connections.

\*\*If your model is not equipped with this switch, you can still test your UPS batteries. First plug your UPS into a grounded surge suppressor (which will maintain the ground connection), then turn the surge suppressor's power switch OFF.

#### Cold-Start your UPS

If your UPS is equipped with a MUTE/TEST switch, you may "cold start" it and use it as a stand-alone power source when utility power is not present, providing that the UPS's battery is charged. To "cold start" your UPS, first turn the "OFF/ON" switch ON. Then, move the MUTE/TEST switch to the left, hold momentarily and release when the "☒" indicator light begins to flash.



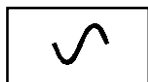
**Available  
on select  
models**

Chronic mild brownouts that cause the UPS to switch to battery power frequently could leave your batteries low on charge. The adjustable voltage potentiometer allows you to prevent excessive battery drain by lowering the voltage point at which the UPS switches to battery. To keep your UPS from switching to battery during mild brownouts, turn the potentiometer clockwise to lower the voltage point as much as 18% below the nominal setting of 190 volts (when set fully clockwise).

*Note: Your UPS's optimal setting will depend on the voltage conditions in your area. Adjust the potentiometer clockwise only if you want to reduce how often your UPS switches to battery. Your UPS will function properly at any setting. Use caution when adjusting the potentiometer while the UPS is powering voltage-sensitive loads.*

## Indicator Lights

**All Indicator Light descriptions apply when the UPS is plugged into a wall outlet and turned ON.**



This green light will turn ON whenever your UPS is plugged in and receiving normal AC line power.



This red light will turn ON when your UPS is providing your equipment with battery power.

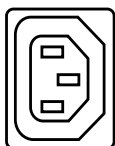


**Available  
on select  
models**

This yellow light will turn ON after you test your UPS battery's charge with the "Mute/Test" Switch to indicate that the UPS's battery is less than fully charged. If it stays on continuously, contact Tripp Lite for service. The light will flash after you set the "OFF/ON" Switch to the "OFF" position to indicate that the UPS will not provide battery backup during a blackout or brownout.

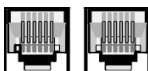
## Other UPS Features

### AC Receptacles



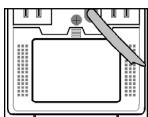
The receptacles provide your connected equipment with AC line power during normal operation. They will provide battery power during blackouts and brownouts only if the "OFF/ON" Switch is set to the "ON" position. The receptacles also protect your equipment against damaging surges and line noise.

### RJ11 Telephone Jacks



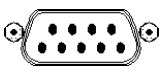
These jacks protect your equipment against telephone line surges. Connecting your equipment to these jacks is optional. Your UPS will still work properly without this connection.

### Battery Replacement Door



Under normal conditions, the original battery in your UPS will last several years. Battery replacement should be performed only by qualified service personnel. Refer to "Battery Warnings" in the Safety section on page 2.

### DB9 Serial Port



**Available  
on select  
models**

The DB9 port connects your UPS to any workstation or server. Use with Tripp Lite software and cabling to automatically save open files and shut down equipment during a blackout. This port sends contact-closure signals to indicate line-fail and low-battery status. It also receives a shut down signal from the connected computer to conserve the UPS battery charge. Contact Tripp Lite Customer Support for more information.

# Storage & Service

## Storage

First turn your UPS OFF and disconnect its power cord from the wall outlet. Then disconnect all equipment to avoid battery drain. If you plan on storing your UPS for an extended period of time, fully recharge the UPS batteries once every three months by plugging the UPS into a live AC outlet and letting the UPS charge for 4 to 6 hours. If you leave your UPS batteries discharged for an extended period of time, they will suffer a permanent loss of capacity.

## Service

If returning your UPS to Tripp Lite, contact your local Tripp Lite dealer or distributor. You will be referred to a service center. Carefully pack the UPS using the ORIGINAL PACKING MATERIAL that came with the unit. Enclose a letter describing the symptoms of the problem. If the UPS is within the 2 year warranty period, enclose a copy of your sales receipt.

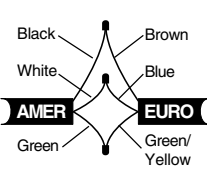
# Specifications

	Internet 300 I	Internet 500 I
Output Capacity (VA/Watts):	300/185	500/280
Battery Runtime (Half Load/Full Load) Minutes:	17/5	17/5
Typical Runtime (Desktop PC/15 in. monitor) Minutes:	15	30
Battery Recharge Rate:	2-4 hrs.	2-4 hrs.
Approvals:	UL, CE	UL, CE
Modem/Fax Protection (starts at 260V):	1 line	1 line

	Internet 700 I
Output Capacity (VA/Watts):	700/425
Battery Runtime (Half Load/Full Load) Minutes:	17/5
Typical Runtime (Desktop PC/15 in. monitor) Minutes:	45
Battery Recharge Rate:	2-4 hrs.
Approvals:	UL, CE
Modem/Fax Protection (starts at 260V):	1 line

**ALL MODELS:**  
Input Voltage/Frequency (230V/60 Hz); On Battery Output Voltage Range (230V +/- 5%); Output Waveform Line Mode (filtered sine wave); Output Waveform Battery Mode (PWM sine wave); AC Surge Suppression (exceeds IEEE 587 Cat. A & B standards); AC Noise Attenuation (>40 dB); AC Protection Modes (H to N, H to G, N to G).

## Wiring Diagram

	Wire Color	Wire 1	Wire 2	Wire 3
	<b>American</b>	Black	White	Green
	<b>European</b>	Brown	Blue	Green/Yellow
	Wire Reference	Wire 1	Wire 2	Wire 3
	<b>American</b>	Line 1	Neutral	Ground
	<b>European</b>	Line 1	Line 2 or Neutral	Ground